







Disclaimer

- IBM's statements regarding its plans, directions, and intent are subject to change or withdrawal without notice at IBM's sole discretion.
- Information regarding potential future products is intended to outline our general product direction and it should not be relied on in making a purchasing decision.
- The information mentioned regarding potential future products is not a commitment, promise, or legal obligation to deliver any material, code or functionality. Information about potential future products may not be incorporated into any contract. The development, release, and timing of any future features or functionality described for our products remains at our sole discretion.
- Performance is based on measurements and projections using standard IBM benchmarks in a controlled environment. The actual throughput or performance that any user will experience will vary depending upon many factors, including considerations such as the amount of multiprogramming in the user's job stream, the I/O configuration, the storage configuration, and the workload processed. Therefore, no assurance can be given that an individual user will achieve results similar to those stated here

Complete your session evaluations online at www.SHARE.org/Seattle-Eval













Solutions for z System platforms and for open systems

Multiplatform Resiliency for IBM z Systems (xDR):

- Extends GDPS/PPRC "IBM z/OS® support" to IBM zVM® and associated-guests along with Linux
- Coordinated IBM HyperSwap® z/OS, z/VM with its guests, and native Linux
- Graceful shutdown and startup of Linux clusters or nodes
- Coordinated takeover recovery from a Linux cluster failure

Distributed Cluster Manager (DCM):

- Provides near-continuous availability (CA) in both sites
- Extends GDPS to manage front-end distributed servers and clusters (IBM AIX®, HP-UX, Linux, Solaris, VMWare and Microsoft Windows)
- Support for SA AppMan and VCS with Global Cluster Option (GCO)
- Extends monitoring and management to open systems
- Extends data consistency to open systems
- Provides automation scripting for server management

¹IBM Tivoli System Automation Application Manager (SA AppMan), ²Veritas Cluster System (VCS)























Slide 17









- A typical configuration has the H2 more local than H3.
 - H2 provides for local recovery in case of a failure of H1 (Continuous Availability CA)
 - H3 provides for a more remote recovery in the case of a more widespread failure that affects both H1 and H2 (Disaster Recovery – DR)







- New terminology:
 - "Site 1 disk" now ambiguous
 - Three "disk locations:" H1, H2, and H3
 - Three "replication legs:" RL1, RL2, and RL3. The replication leg between the two current secondary disks is known as the "MultiTarget Incremental Resync" or "MTIR" leg.
- Two sets of non-PPRCed CDSs in each of the disk locations. The general concepts of Normal, Site1-only, and Site2-only configurations in GDPS/PPRC also exist in GDPS/MTMM, however the concepts are not identical across the two products. For GDPS/MTMM:
 - Normal CDS1 of the current primary disk storage location will be used as the Primary CDS. The Alternate CDS will be the CDS1 defined in the secondary disk storage location that provides failure isolation at a site level. This means that H3 would contain CDS2 when the primary disks are running in Site1 (H1 or H2). When the primary disks are in H3,

the CDS1 defined in the secondary storage location of the current preferred swap leg would be used as the Alternate.

- Site1 Uses CDS1 of current primary disk storage location as the Primary CDS if the primary disk storage is in H1 or H2. CDS1 of the other storage location would be used as the Alternate CDS. If the primary disk is in H3, then the CDS1 defined in the secondary storage location of the current preferred swap leg would be used as the Primary CDS, and the CDS1 defined in the other storage Site1 location would be used as the Alternate.
- **Site2** CDS1 and CDS2 of the H3 storage location would be used as the Primary and Alternate CDSs respectively.
- Although not shown, there are a number of cross-site connections between the two sites over dark, dedicated fiber, using DWDMs. There is connectivity for various host to disk FICON channel connections, PPRC links, sysplex connections for XCF signaling amongst the systems and Server Time Protocol connectivity. Additionally all servers in both sites are connected to the same HMC/SE LAN requiring the HMC/SE LAN to be cross-connected either over the DWDM fiber infrastructure or bridged over the WAN.











